



SEQUENCE LISTING

<110> Nuevolution A/S
<120> Proximity-aided synthesis of templated molecules
<130> TM6-PCT
<150> DK PA 2002 01347
<151> 2002-12-09
<150> US 60/409,968
<151> 2002-12-09
<160> 11
<170> PatentIn version 3.2
<210> 1
<211> 21
<212> DNA
<213> artificial sequence
<220>
<223> Oligonucleotide O1 used as template in example 1
<220>
<221> misc_feature
<222> (1)..(1)
<223> n is Amino-Modifier C6 dT (Glen Research Catalogue #
10-1039-90)
<400> 1
ncgatggatg ctccaggtcg c 21
<210> 2
<211> 12
<212> DNA
<213> artificial sequence
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<223> Oligonucleotide O2 used for preparing building block 1 in
example 1
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<221> misc_feature
<222> (1)..(1)
<223> n is g modified with Biotin phosphoramidite (Glen Research
catalogue #
10-1953-95)
<220>
<221> misc_feature
<222> (12)..(12)
<223> n is g modified with C6 S-S thiol modifier (Glen Research
catalogue # 10-1936-90)
<400> 2
nagcatcca tcn 12
<210> 3
<211> 15
<212> DNA
<213> Artificial Sequence
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<223> Oligonucleotide O3 used in example 1 for preparation of the second building block

<220>

<221> misc_feature

<222> (1)..(1)

<223> n is c modified with Biotin Phosphoramidite (Glen Research, catalogue # 10-1953-95)

<220>

<221> misc_feature

<222> (15)..(15)

<223> n is g modified with C6 S-S thiol modifier (Glen Research, catalogue #10-1936-90)

<400> 3

ntggagcat ccatcn 15

<210> 4

<211> 20

<212> DNA

<213> artificial sequence

<220>

<223> Oligonucleotide O4 used in example 1 for preparation of the third building block

<220>

<221> misc_feature

<222> (1)..(1)

<223> n is g modified with Biotin Phosphoramidite (Glen Research, catalogue # 10-1953-95)

<220>

<221> misc_feature

<222> (20)..(20)

<223> n is g modified with C6 S-S thiol modifier (Glen Research, catalogue #10-1936-90)

<400> 4

ncgacctgg agcatccatcn 20

<210> 5

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide O5 used in example 2 for preparation of a building block

<220>

<221> misc_feature

<222> (13)..(13)

<223> n is g modified with C6 S-S thiol modifier (Glen Research, catalogue #10-1936-90)
<400> 5
gagcatccat cn 12
<210> 6
<211> 15
<212> DNA
<213> Artificial Sequence
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<223> Oligonucleotide 06 used in example 2 for preparation of a building block
<220>
<221> misc_feature
<222> (15)..(15)
<223> g modified with C6 S-S thiol modifier
<400> 6
ctggagcatc catcn 15
<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence
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<223> Oligonucleotide 07 used in example 2 for preparation of a building block
<220>
<221> misc_feature
<222> (20)..(20)
<223> g modified with C6 S-S thiol modifier
<400> 7
gcgacctgga gcatccatc n 20
<210> 8
<211> 15
<212> DNA
<213> Artificial Sequence
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<223> Oligonucleotide 08 used in example 2 for preparation of a building block
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<221> misc_feature
<222> (15)..(15)
<223> g modified with C6 S-S thiol modifier
<400> 8
gacgagcatc catcn 15
<210> 9
<211> 20

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<212> DNA
<213> Artificial Sequence
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<223> Oligonucleotide O9 used in example 2 for preparation of a
building
block
<220>
<221> misc_feature
<222> (20)..(20)
<223> g modified with C6 S-S thiol modifier
<400> 9
ctagggacga gcatccatcg 20
<210> 10
<211> 22
<212> DNA
<213> Artificial Sequence
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<223> Oligonucleotide O10 used in example 2 for preparation of a
template
<220>
<221> misc_feature
<222> (22)..(22)
<223> n is a modified with PC Biotin (Glen Research, catalogue #
10-4950-95)
<400> 10
cgatggatgc tcccaggtcg cn 22
<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Oligonucleotide O11 used in example 2 for preparation of a
template
<220>
<221> misc_feature
<222> (21)..(21)
<223> n is a modified with PC Biotin (Glen Research, catalogue #
10-4950-95)
<400> 11
cgatggatgc tcgtccctag n 21

<210> 12
<211> 58
<212> DNA
<213> Artificial

<220>
<223> Synthetic (Template)

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<220>
<221> misc_feature
<222> (16)..(20)
<223> n is a, c, g, or t

<400> 12
agcgctaact gagacnnnnn agaghhhhh ghghhhgggh hhhggctcga catgcgta
    58

<210> 13
<211> 20
<212> DNA
<213> Artificial

<220>
<223> Synthetic (Nucleotide sequence of scaffold building block)

<220>
<221> misc_feature
<222> (16)..(19)
<223> n is a, c, g, or t

<400> 13
tcgcgattga ctctgnnnnt
    20

<210> 14
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Synthetic (First building blocks)

<400> 14
ctcddddddcc
    10

<210> 15
<211> 17
<212> DNA
<213> Artificial

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<220>
<223> Synthetic (Second building block)

<220>
<221> misc_feature
<222> (4)..(8)
<223> n is inosine.

<400> 15
ctcnnnnncc ddddcc
17

<210> 16
<211> 24
<212> DNA
<213> Artificial

<220>
<223> Synthetic (Third building block)

<220>
<221> misc_feature
<222> (4)..(8)
<223> n is inosine.

<220>
<221> misc_feature
<222> (11)..(15)
<223> n is inosine.

<400> 16
ctcnnnnncc nnnnnccddd dccc
24

<210> 17
<211> 6
<212> PRT
<213> Artificial

<220>
<223> Synthetic (Hexapeptide used to bind to amino
oligonucleotide to create an identifier molecule)

<400> 17

Cys	Phe	Phe	Lys	Lys	Lys
1				5	